



WFEO Learning Management System Platform Framework

Expression of Interest (EOI)

Background

The World Federation of Engineering Organizations (WFEO) is exploring the development of a centralized Learning Management System (LMS) to support global engineering education initiatives through the WFEO Institute. The WFEO Institute is focused exclusively on Continuing Professional Development (CPD) for practising engineers and does not seek to replicate or compete with university-based engineering education.

WFEO is therefore seeking to select a Vendor/Partner for the design, configuration, and deployment of the centralized Learning Management System (LMS).

The platform must support a global, multi-stakeholder ecosystem including engineers, institutions, other WFEO partners, and training providers. It will enable, at a minimum:

1. Training programmes,
2. Continuing Professional Development (CPD),
3. Webinars and hybrid learning events.

1. Institutional Context & Strategic Alignment

1.1 About WFEO, UNESCO Cooperation, and the UN SDGs

The World Federation of Engineering Organizations (WFEO) is the peak international body for the engineering profession, representing national engineering institutions from over 100 countries and reaching more than 30 million engineers worldwide. As an official partner of UNESCO, WFEO plays a pivotal role in aligning engineering capabilities with the United Nations Sustainable Development Goals (UN SDGs).

The WFEO Institute represents a major strategic vehicle to operationalize this mission, equipping practicing engineers globally with the certified competencies required to address



complex global challenges—such as climate change mitigation, disaster risk management, and sustainable infrastructure development.

LMS Vendors/Partners should recognize that this platform is not simply an IT solution, but a global public-good mechanism designed to scale engineering capacity building, with a particular emphasis on developing countries while also supporting evolving upskilling and reskilling needs in developed countries.

1.2 Evolving Framework: Towards the WFEO Institute

The WFEO Institute builds on the foundational success of the preexisting WFEO Academy, expanding from basic open-access training to a formalized, internationally recognized professional certification ecosystem.

This Expression of Interest (EoI) aims to:

- Identify qualified LMS providers and technology partners,
- Assess market capabilities against WFEO requirements,
- Shortlist LMS Vendors/Partners for a subsequent Request for Offer (RFO) phase.

2. Course Content Delivery and Global Mobility

To ensure the highest standard of CPD, course content is developed and delivered through an multi-stakeholder ecosystem consisting of:

- Leading specialist international institutions,
- WFEO national, affiliated and international members, as well as WFEO associates,
 - Strategic partners including key international organizations and institutions. .

Particularly, for certified pathways, the WFEO Institute collaborates with internationally recognized organizations such as INCOSE, ASCE, IEEE, ASME, CRI, and GRI. Furthermore, a strategic Memorandum of Understanding (MoU) with the United Nations University underpins future collaborative research and skills development initiatives. The LMS platform must successfully mirror and enable this ecosystem by providing:

- Frictionless integration of external content,
- Multi-tenant institutional branding, and theming,
- Cross-border certification and credential verification to support global engineering mobility.



3. Scope Overview: Functional Requirements

3.1. Core LMS Capabilities

The platform must support:

- Course management (creation, organisation, delivery),
- User enrolment and progress tracking,
- Scalable content hosting (video, documents, modules),
- Structured learning pathways (modular course design),
- Ability to import and migrate existing content from WFEO Academy and any relevant WFEOweb resources,
- Multilingual support, with at least:
 - Full platform support of all six UN official languages (Arabic, Chinese, English, Russian, Spanish, French) as a strategic objective
 - Initial minimum operational support in English and French, as a go-live requirement.

3.2. Learning & Certification

The LMS must provide:

- Mandatory automated assessments including quiz-based, AI-assisted assignment evaluation (where feasible and appropriately governed),
- Automated certification generation,
- CPD credits tracking and reporting,
- Audit reporting and assessment integrity controls to ensure credibility and defensibility of CPD certifications.

3.3. Events & Collaborative Learning

The LMS shall support:

- Integration of webinars and hybrid events,
- Integration with video conferencing tools such as Zoom and Microsoft Teams,
- Dedicated spaces for discussion, peer interaction, and collaborative learning (e.g., forums, discussion boards, or equivalent features).



3.4. User Management & Access

The LMS must include:

- Role-based access control (Admin, Learner, Instructor, Partner)
- Multi-organisation / institutional structure support
- External access for non-WFEO participants
- Minimum multilingual support: English and French

3.5. User Experience Requirements

The LMS must offer:

- Intuitive and simple user interface suitable for non-technical global users
- Clear navigation across courses, events, and learning pathways
- Fully responsive design (mobile and desktop compatible)

3.6. Data, Analytics & Governance

The LMS shall provide:

- Reporting dashboards (engagement, participation, completion rates)
- Course quality assessment and peer review workflows, collaborative space for course quality assessment by expert panels against centralised WFEO criteria"
- Data export functionality (CSV / Excel)
- Full administrative control retained by WFEO
- Full data ownership by WFEO
- Data portability and system reversibility (*avoid platform lock-in*)

3.7. Technical Requirements

The technical environment shall:

- Minimize IT administration burden: the platform must be operable by non-technical WFEO secretariat staff with minimal ongoing IT support;
- Preferably be delivered as a Cloud-based SaaS solution;



- Be fully General Data Protection Regulation (GDPR) compliant (Mandatory requirement);
- Demonstrate a robust cybersecurity posture (Mandatory requirement) including: LMS Vendors/Partners must demonstrate no current or recent material security incidents and provide evidence of security certifications (e.g. ISO 27001, SOC 2);
- Provide API access to support future integrations (e.g., CRM, federation systems, external registries);
- Offer high scalability as well as reliable and resilient global performance;
- Provide global support coverage across relevant time zones.

5. Requirement for a Holistic Financial & Business Model Concept

LMS Vendors/Partners are required to submit a comprehensive Financial and Business Model Concept that extends beyond a basic licensing and setup price list.

Because the WFEO Institute operates on a financially sustainable model aimed at delivering professional development at a nominal cost, the commercial proposal must align with a global non-profit federation context.

Submissions must explicitly detail:

- **Affordable and transparent subscription pricing:** Cost-effective solutions suitable for a global non-profit federation,
- Clear identification of any per-user, per-course, or usage-based pricing elements.
- **Cash Flow and Predictability:**
 - A clear breakdown of upfront implementation and onboarding costs versus ongoing operational and maintenance fees,
 - Proposals that minimize financial risk during the rollout phase (e.g., phased payments, pilots, ramp-up periods).
- **Revenue Sharing Enablement:**
 - The technical and administrative capabilities of the platform and the proposed commercial model to support a revenue-sharing mechanism between WFEO, its content partners, and other relevant actors that might include the LMS Vendor/Partner. This should include clear provisions for recognizing and accommodating in-kind contributions in the provision of services, where appropriate (e.g. discounted or pro bono content development, hosting, or technical support).



- **Market Competitiveness:**
 - An analytical comparison illustrating how the proposed pricing and licensing structure compares favorably to prevailing market standards in the corporate and institutional CPD/SaaS LMS field.
- **Value for Money for Foundation Tracks:**
 - Clear Demonstration of how the pricing model accommodates WFEO's commitment to providing certain foundation courses at no cost,
 - Assurance that high-volume, free courses do not trigger prohibitive per-user licensing penalties or hidden costs.

6. Information Requested from Interested LMS Vendors/Partners

LMS Vendors/Partners are invited to submit:

- Company profile and relevant experience, particularly with global or multi-stakeholder LMS implementations,
- Examples of similar LMS deployments (including any work with professional bodies, non-profits, or UN/INGO partners),
- High-level platform overview (architecture, technology stack, deployment model),
- Preliminary capability mapping against WFEO's LMS requirements,
- Description of global implementation and support capacity (regions covered, languages supported, service tiers).

EOI Outcome

Based on EOI submissions, WFEO will:

- Evaluate capabilities and alignment with WFEO's requirements and mission,
- Shortlist LMS Vendors/Partners.
- Invite shortlisted LMS Vendors/Partners to submit a detailed Request of Offer (RFO) response.

Submission Deadline: The deadline for a LMS Vendor/Partner to submit its response to this Expression of Interest is **3 August 2026 at 00:00 (UTC+2)**

to be sent at partnerships@wfeo.org